(status and multithreading and distribute and information and client and server)
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1 **Improving instruction cache performance in OLTP**
Stavros Harizopoulos, Anastassia Ailamaki
September 2006 ACM Transactions on Database Systems (TODS),   Volume 31 Issue 3
Publisher: ACM
Full text available: 📄 Pdf (783.16 KB)   Additional Information: full citation, abstract, references, index terms

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Instruction-cache misses account for up to 40% of execution time in online transaction
processing (OLTP) database workloads. In contrast to data cache misses, instruction misses cannot be
overlapped with out-of-order execution. Chip design limitations ...

Keywords: Instruction cache, cache misses

2 **JOPI: a Java object-passing interface**
Nader Mohamed, Jameela Al-Jaroodi, Hong Jiang, David Swanson
November 2002 JGI '02: Proceedings of the 2002 joint ACM-ISCOPE conference on Java Grande
Publisher: ACM
Full text available: 📄 Pdf (95.28 KB)   Additional Information: full citation, abstract, references, index terms

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Recently there has been an increasing interest in developing parallel programming capabilities in Java
to harness the vast resources available in clusters, grids and heterogeneous networked systems. In
this paper, we introduce a Java object-passing interface ...

Keywords: Java, cluster, heterogeneous systems, object-oriented systems, object-passing, parallel
programming

3 **Autonomic multi-agent management of power and performance in data centers**
Rajarshi Das, Jeffrey O. Kephart, Charles Lefurgy, Gerald Tesauro, David W. Levine, Hoi Chan
May 2008   AAMAS '08: Proceedings of the 7th international joint conference on Autonomous agents
            and multiagent systems: industrial track
Publisher: International Foundation for Autonomous Agents and Multiagent Systems
Full text available: 📄 Pdf (427.30 KB)   Additional Information: full citation, abstract, references, index terms

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The rapidly rising cost and environmental impact of energy consumption in data centers has become a

multi-billion dollar concern globally. In response, the IT Industry is actively engaged in a first-to-market race to develop energy-conserving hardware ...

Keywords: data center, energy savings, green data center, multicriteria utility functions, policy-based management, power management, power measurement

4   OLTP through the looking glass, and what we found there
Stavros Harizopoulos, Daniel J. Abadi, Samuel Madden, Michael Stonebraker
June 2008   SIGMOD '08: Proceedings of the 2008 ACM SIGMOD international conference on
            Management of data
Publisher: ACM
Full text available: Pdf (308.68 KB)   Additional Information: full citation, abstract, references, index terms

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Online Transaction Processing (OLTP) databases include a suite of features - disk-resident B-trees and heap files, locking-based concurrency control, support for multi-threading - that were optimized for computer technology of the late 1970's. Advances ...

Keywords: dbms architecture, main memory transaction processing, oltp, online transaction processing

5   Developing embedded multi-threaded applications with CATAPULTS, a domain-specific
    language for generating thread schedulers
Matthew D. Roper, Ronald A. Olsson
September 2005 CASES '05: Proceedings of the 2005 international conference on Compilers,
            architectures and synthesis for embedded systems
Publisher: ACM
Full text available: Pdf (141.51 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 1,   Downloads (12 Months): 13,   Citation Count: 0

This paper describes CATAPULTS, a domain-specific language for <u>c</u>reating <u>a</u>nd <u>t</u>esting <u>ap</u>plication-specific <u>u</u>ser <u>l</u>evel <u>t</u>hread ...

Keywords: application-specific schedulers, domain-specific languages, thread scheduling, user-level threads

6   Running EveryWare on the computational grid
Rich Wolski, John Brevik, Chandra Krintz, Graziano Obertelli, Neil Spring, Alan Su
January 1999 Supercomputing '99: Proceedings of the 1999 ACM/IEEE conference on Supercomputing
            (CDROM)
Publisher: ACM
Full text available: Pdf (414.73 KB)   Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 48,   Citation Count: 10

7   Communications of the ACM: Volume 51 Issue 1
January 2008 issue   Volume 51 Issue 1
Publisher: ACM
Full text available: Digital Edition , Pdf (5.97 MB) Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 535, Downloads (12 Months): 3766, Citation Count: 0

8 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes

Publisher: ACM

Full text available: Pdf (63.03 MB) Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): 172, Downloads (12 Months): 1483, Citation Count: 3

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex ...

9 Communications of the ACM: Volume 51 Issue 7

July 2008 issue Volume 51 Issue 7

Publisher: ACM

Full text available: Digital Edition , Pdf (6.54 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 2739, Downloads (12 Months): 3008, Citation Count: 0

10 Stasis: flexible transactional storage

Russell Sears, Eric Brewer

November 2006 OSDI '06: Proceedings of the 7th symposium on Operating systems design and implementation

Publisher: USENIX Association

Full text available: Pdf (492.74 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 70, Citation Count: 1

An increasing range of applications requires robust support for atomic, durable and concurrent transactions. Databases provide the default solution, but force applications to interact via SQL and to forfeit control over data layout and access mechanisms. ...

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